SPARTAN MOSQUITO

# THE MOSQUITO ERADICATOR


## PRODUCT OVERVIEW

The Spartan Mosquito Eradicator is the most effective, longest lasting, continuous mosquito control system. Spartan doesn't use sprays, fogs, coils, mosquito nets, citronella, electronic equipment, or zappers. The Spartan Mosquito Eradicator also doesn't require batteries or electricity, just water!

**The Spartan Mosquito Eradicator is the easiest of mosquito control solutions.**

- Easy to install - Hang along the property perimeter.
- Does not require power - Just add water and shake.
- Provides continuous, long range protection.
- No hazardous mists, airborne particulates, or spray-on chemicals.
- Extremely effective - Significant decrease in population within 15 days, up to 95% mosquito control for up to 90 days. Eradicates females and males before they can breed.
- Low cost maintenance - Just add water, shake, and replace at least every 90 days.

After the "first bite" of the season, deploy Spartan Mosquito Eradicators at approximately six feet off the ground, within 180 feet of each other, along your property line. Be sure to place the Spartan Mosquito Eradicators away from where people gather since mosquitoes will gather near the Eradicators. Once Spartan Mosquito Eradicators are deployed, they create a barrier giving the mosquitoes a target that has the same attraction triggers as people and animals. Once mosquitoes feed on the water solution they die before they can breed again. The mosquito population in the area will then decrease in 15 days or less and up to 95% of your mosquito population will cease to exist for up to 90 days.

The Spartan Mosquito Eradicator is less hazardous than spray-on repellent, it takes 10 minutes to set up, and it lasts up to 90 days. Its simplicity makes it perfect for residential, governmental, and commercial use.

## LESS EFFECTIVE MOSQUITO CONTROL MEASURES

There are several other ways to decrease the mosquito population, but are they equally reliable and effective?

### SPRAY SERVICES

**Expensive. Intermittent.**

### SPRAY-ON REPELLENTS

**Limited duration. Direct contact with skin.**

### BUG ZAPPERS

**Ineffective against mosquitoes.**

### CANDLES & CORE

**Limited Range. Wind dependent.**

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## SPRAY SERVICES AND MISTING DEVICES

Spray services are intermittently effective, expensive, and their recurrent costs add up over time. Plus, they can be potentially harmful.

The American Mosquito Control Association, a scientific/educational, not-for-profit group that is devoted to the suppression of mosquitoes, does not endorse the use of timed-misting systems. They put unnecessary pesticides in the environment that kill non-target insects and promote resistance in insect populations.

## BUG ZAPPERS

Bug zappers have been proven ineffective in killing mosquitoes. Studies have shown that they fail to attract mosquitoes, and instead kill thousands of bugs that are harmless and necessary to the ecosystem, such as moths and fireflies.

## LANTERNS, CANDLES, AND TORCHES

Candles and torches emit smoke to confuse and ward off mosquitoes. They have limited effective radiuses (they normally claim up to 15 feet but sometimes have an effective radius of six to seven feet when the air is still) and are subject to winds and breezes, rendering them close to useless.

## AEROSOL AND PUMP SPRAY-ON REPELLENTS

Spray-on repellent used on the skin is a summertime go-to to provide temporary protection, but finding one that isn't full of harmful chemicals can be challenging. Synthetic repellents containing the DEET chemical compound have been used for over 50 years, but they do have shortcomings. Any spray containing organic solvents has the capability to dissolve certain plastics, and can also be an environmental pollutant. So while spray-on repellents can be temporarily effective in warding off local mosquitoes, they do not decrease the mosquito population, only work for a short amount of time, and can pollute the environment.


Forget about unpleasant and ineffective sprays, repellents, candles, and costly monthly spray services. Do not settle for odors, inhalable airborne particulates, or applying chemicals directly to skin and clothes. Instead invest in an effective, continuous solution.

Provide an environment that is safer from mosquito bites and mosquito-born diseases, and eradicates mosquito populations for up to 90 days. Invest in Spartan Mosquito Eradicators.

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# CASE STUDY: TGCOCT17-GOLF

**Who:** Timberton Golf Club, Ron Hickman
**What:** Timberton Golf Club officials requested Spartan Mosquito treat its 7,109 yard course and surrounding 200 plus community homes
**Where:** Hattiesburg Mississippi Forest County
**When:** Early-August through early-November 2017
**Why:** To increase the enjoyment of the golfing community

**Discussion:**

The Golf Club and surrounding community include over 80 acres of water features including ponds, streams, and stagnant water areas. 150 boxes of Spartan Mosquito Eradicators were deployed throughout the entire golf course property.

The number of mosquito bites (or landings) and their times were recorded over a 10 minute interval in problem areas throughout the course. At the deployment time, counts averaged 14 bites every 10 minutes in infestation areas. For the following three (3) months these counts were conducted at two week intervals never exceeding 1 landing/bite. To date, this is the most effective, most-economical, longest-lasting mosquito control method for a golf course and its surrounding community.


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# CASE STUDY: CSSAI615ISL

**Who:** Andros Beach Club & Andros Diving Owner/Operator, Jesse Leopold
**What:** Andros Beach Club Owner/Operator agreed to test Spartan Mosquito on Island
**Where:** Kemp's Bay, South Andros Island, Bahamas
**When:** Mid-June through early-September 2016
**Why:** Eradicate Mosquitos to increase livability and enjoyability of resort


**Discussion:**

The only proven scientific method for deducing mosquito activity is to count mosquito bites. The number of mosquito bites (or landings) and their times are recorded over a certain period of time by a certified researcher.

South Andros Island in the Bahamas is notorious for oppressive mosquito populations across the entire island. The day zero, ground zero counts for the South Andros property were beyond record-keeping capacity. Spartan Mosquito deployed enough Eradicators to effectively control mosquitoes for six square-acres. Three weeks after deployment, Spartan recorded a zero mosquito count at the ground zero location.

The club owner contacted Spartan and reported that mosquitoes returned on the fourth month after deployment (beyond 90 days) and new boxes were reordered and deployed.

After deploying Spartan Eradicators, Spartan received feedback from the owner and guests. A brief synopsis is as follows:

"We recently installed Spartan around our property and we noticed a swift and dramatic decrease in the mosquito population. We are able to enjoy our outdoor areas much more, and during all times of the day now, including dusk."

"This is the first time ever that we have been able to open our doors in the evening."

"I highly recommend Spartan Mosquito. Nothing we have ever tried has worked this well or this long."

"South Andros probably has the most dense mosquito population in the Bahamas. While we were there for our vacation, we didn't need to use mosquito repellant at all."

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# CASE STUDY: CSSF720FRM

**Who:** Steele Farms Manager, Mark Goss

**What:** Steele Farms Manager requested Spartan Mosquito response to Mosquito Infestation

**Where:** Steele Farms Shop (Hollandale Metropolitan Area) Washington County Mississippi

**When:** Mid-July through late-November 2016

**Why:** Eradicate Mosquitos to increase productivity of workers


**Discussion:**

The only proven scientific method for deducing mosquito activity is to count mosquito bites. The number of mosquito bites (or landings) and their times are recorded over a certain period of time by a certified researcher.

The day zero, ground zero counts in Hollandale in a four-acre mosquito study was 16 mosquito bites (or landings) in three minutes.

Spartan Mosquito deployed enough Eradicators to effectively control mosquitoes for four square-acres. After deploying the Spartan Mosquito Eradicators, further mosquito counts were conducted at one week intervals. Mosquito counts at ground zero were reduced to one mosquito bite (or landing) per week for the duration of the 12-week test period.

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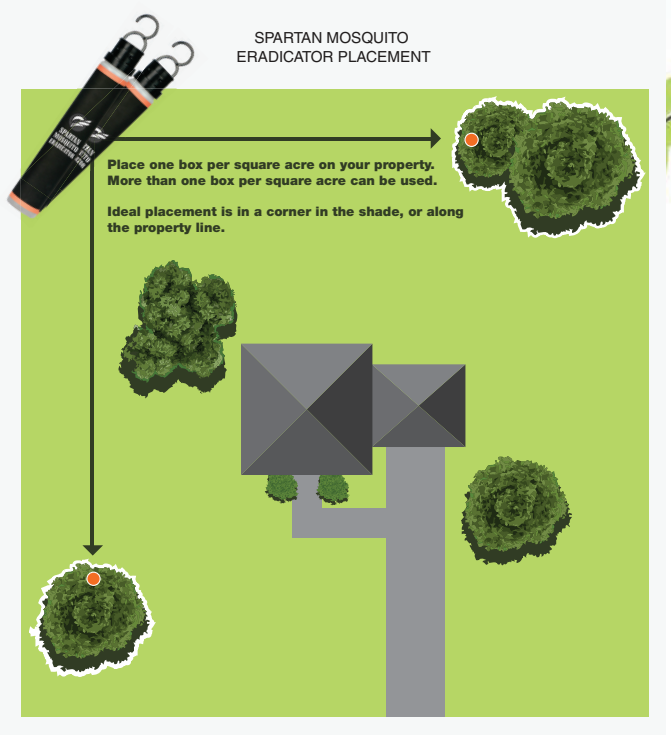
## RESIDENTIAL INSTALLATIONS

### Placement

Typical residential deployments require one box of Spartan Mosquito Eradicators to be hung from trees or other objects on opposite sides of the yard, no more than 180 feet apart. Eradicators should be placed away from areas where people gather since they attract hunting mosquitoes. Placement in shade is not necessary, but it will help reduce evaporation.

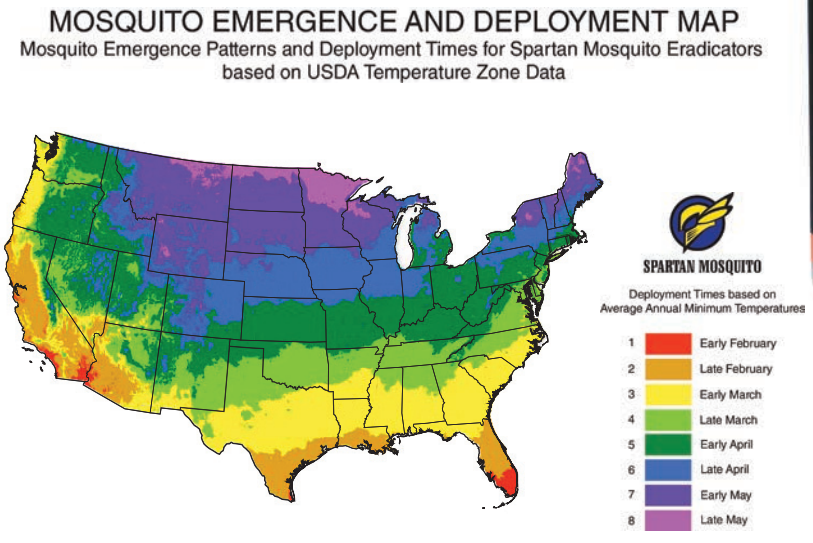
The Eradicators will work together to form a barrier to "catch" hunting mosquitoes on the way into the area using the same attraction triggers as people and animals. Mosquitoes that feed will perish and are not able to reproduce. The mosquito population will suffer dramatically in the first 15 days, and will be up to 95% controlled for up to 90 days.





### Deployment

Spartan Mosquito Eradicators should be placed outdoors in the residential area when mosquito season starts. There are average times of year to do this based on temperate zones, but a good rule of thumb is to place the Eradicators out after the first mosquito bite of the season. Monitor water fill levels and replace Eradicators at least every 90 days.

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# COMMERCIAL INSTALLATIONS

## Placement

Typical commercial deployments require multiple boxes of Spartan Mosquito Eradicators to be hung from trees or other objects along the perimeter of the space, no more than 180 feet apart. Eradicators should be placed away from areas where people gather since they attract hunting mosquitoes. Placement in shade is not necessary, but it will help reduce evaporation.

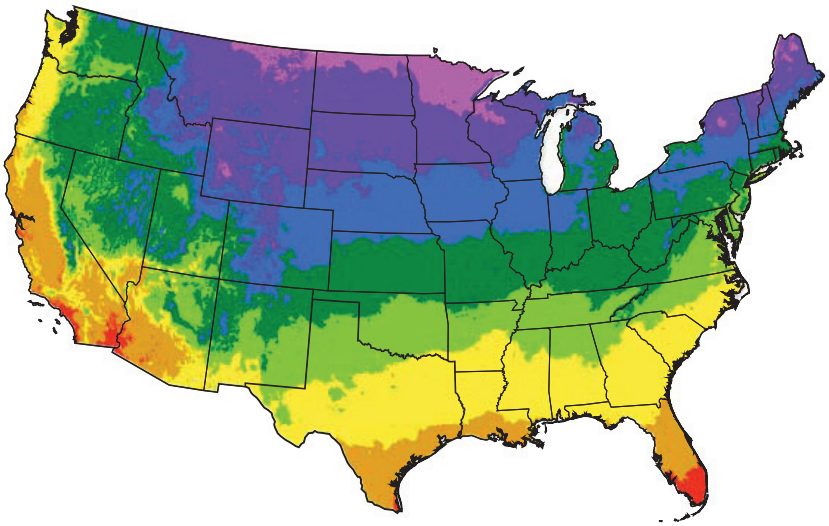
The Eradicators will work together to form a barrier to "catch" hunting mosquitoes on the way into the area using the same attraction triggers as people and animals. Mosquitoes that feed perish and are not able to reproduce. The mosquito population will suffer dramatically in the first 15 days, and will be up to 95% controlled for up to 90 days.

## Deployment

Spartan Mosquito Eradicators should be placed outdoors when mosquito season starts. There are average times of year to do this based on temperate zones, but a good rule of thumb is to place the Eradicators out after the first mosquito bite of the season. Monitor water fill levels and replace Eradicators at least every 90 days.


MOSQUITO EMERGENCE AND DEPLOYMENT MAP

Mosquito Emergence Patterns and Deployment Times for Spartan Mosquito Eradicators based on USDA Temperature Zone Data



SPARTAN MOSQUITO

Deployment Times based on Average Annual Minimum Temperatures

| | |
|---|---|
| 1 | Early February |
| 2 | Late February |
| 3 | Early March |
| 4 | Late March |
| 5 | Early April |
| 6 | Late April |
| 7 | Early May |
| 8 | Late May |

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# MUNICIPAL INSTALLATIONS

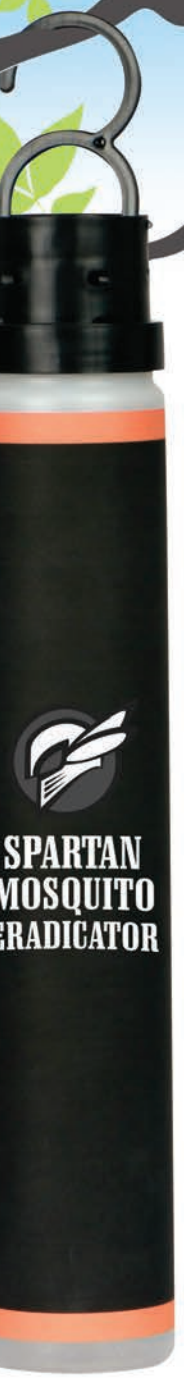
## Placement

Spartan Mosquito will work directly with your municipality to develop a custom deployment map based on the success criteria of the project. Typically, the needs to be addressed are health issues, in particular the spreading of disease, and nuisance issues.

Once deployed, the Eradicators will work together to form a barrier to "catch" hunting mosquitoes on the way into the area using the same attraction triggers as people and animals. Mosquitoes that feed perish and are not able to reproduce. The mosquito population will suffer dramatically in the first 15 days, and will be up to 95% controlled for up to 90 days.

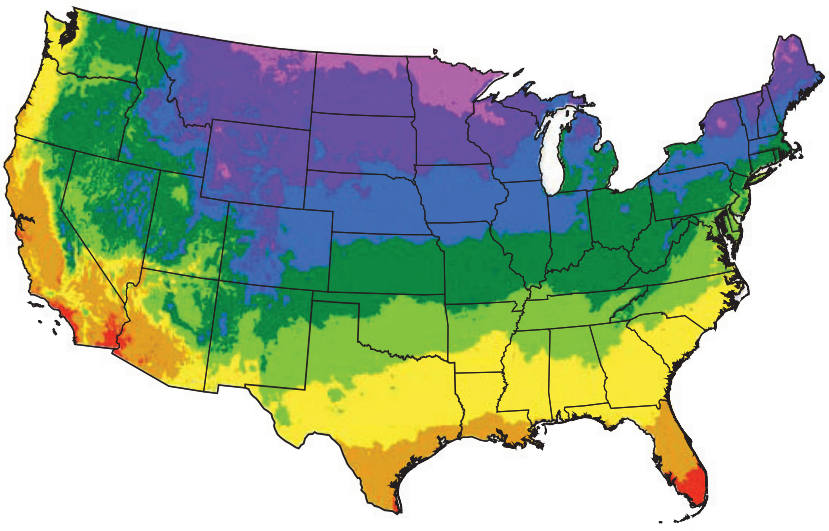
## Deployment

Spartan Mosquito Eradicators should be placed outdoors when mosquito season starts. There are average times of year to do this based on temperate zones, but a good rule of thumb is to place the Eradicators out after the first mosquito bite of the season. Monitor water fill levels and replace Eradicators at least every 90 days.




MOSQUITO EMERGENCE AND DEPLOYMENT MAP

Mosquito Emergence Patterns and Deployment Times for Spartan Mosquito Eradicators based on USDA Temperature Zone Data



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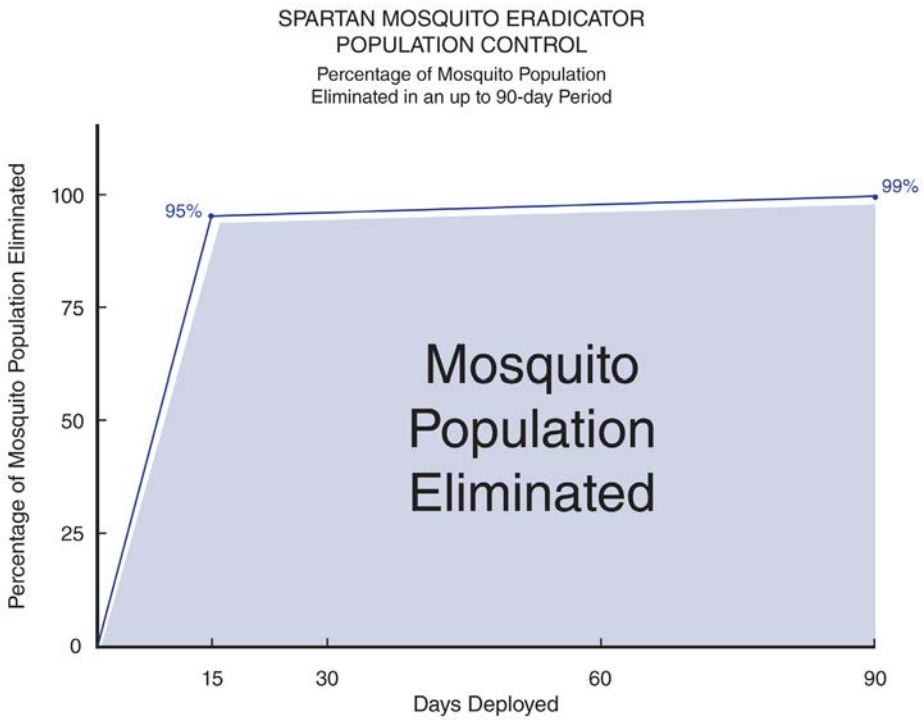
## EFFECTIVENESS

Spartan Mosquito Eradicators are extremely effective in controlling and decimating mosquito populations. They eliminate active "hunting" mosquitoes, many of which are females preparing to lay eggs. Once deployed, Spartan Mosquito Eradicators will work together to form a barrier to "catch" hunting mosquitoes on the way into the area using the same attraction triggers as people and animals. Mosquitoes that feed will perish and are not able to reproduce. The mosquito population will suffer dramatically in the first 15 days, and will be up to 95% controlled for up to 90 days.

If the Spartan Mosquito Eradicators are placed late in the year after the mosquito population has blossomed, two boxes per acre will need to be placed and it may take a little more time to bring the population under control.

Fill levels are marked on the Spartan Mosquito Eradicators. Eradicators placed in dry climates may need to be monitored more often due to excess evaporation. Water evaporating will not harm the effectiveness of the Eradicators as long as water levels are between the fill and water level low marks on the Spartan Mosquito Eradicators. Placing them in shade will reduce water evaporation.


Each Spartan Mosquito Eradicator is designed to last up to 90 days under normal conditions.

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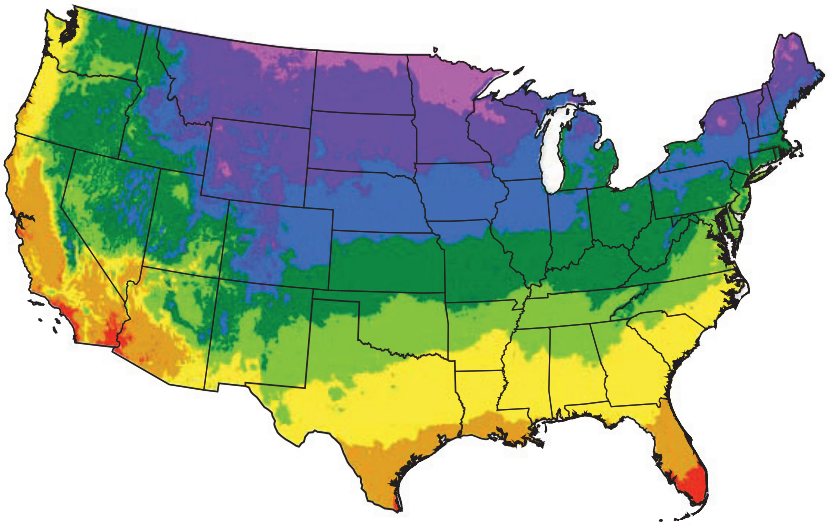
## DEPLOYMENT TIMES

Spartan Mosquito Eradicators should be placed outdoors when mosquito season starts. There are average times of year to do this based on temperate zones, but a good rule of thumb is to place the Eradicators out after the first mosquito bite of the season. Because the Eradicators last up to 90 days, there will be plenty of coverage time before replacements are needed.

The Mosquito Emergence and Deployment Map shows temperate zones based on climate data sourced from the United States Department of Agriculture.

### MOSQUITO EMERGENCE AND DEPLOYMENT MAP

Mosquito Emergence Patterns and Deployment Times for Spartan Mosquito Eradicators based on USDA Temperature Zone Data



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